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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/763,631	06/11/2001	Nail Kavak	203520US2PCT	3849
22850	7590	07/21/2005		EXAMINER
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			FERRIS, DERRICK W	
			ART UNIT	PAPER NUMBER
			2663	

DATE MAILED: 07/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/763,631	KAVAK, NAIL
	Examiner	Art Unit
	Derrick W. Ferris	2663

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 24 March 2005.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-37 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 1,3-20 and 36 is/are allowed.

6) Claim(s) 2,21-27,29,31,33-35 and 37 is/are rejected.

7) Claim(s) 28,30 and 32 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 07 March 2001 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
- 3) Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____

5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____

DETAILED ACTION

Response to Arguments

1. This Office action is in response to applicant's paper filed 3/24/2005. **Claims 1-37** as amended are still in consideration for this application. Applicant has amended claims 1-36. Applicant has canceled no claims. Applicant has added no claims.
2. Examiner **withdraws** the claim objection(s). Examiner thanks applicant for making the necessary corrections.
3. Examiner **withdraws** the 112-second paragraph rejection(s). Examiner thanks applicant for making the necessary corrections to clarify the recited claimed subject matter and thus withdraws the rejection.
4. Examiner does **not withdraw** the obviousness rejection to *Grosslauser I* in view of *Grosslauser II*. The following comments fully address applicant's arguments with respect to the rejection. Applicant's arguments filed 3/24/2005 have been fully considered but they are not persuasive. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the MNS servers provide unused IP multi-cast addresses to nodes by passing queries between one another) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). The examiner, however, notes that the allowed claims contain the above claim limitation at issue. In addition, applicant argues that both *Grosslauser* references do not teach means for building a single spanning delivery tree. In particular, building a single spanning delivery tree between at least one sender and all receivers

that belong to a multicasting group of endpoints. Examiner respectfully disagrees. *Grossglauser I* teaches a hybrid version of a CBT which is a known spanning tree algorithm. With respect to building a single spanning delivery tree between at least one sender and all receivers that belong to a multicasting group of endpoints see e.g., column 7, lines 15-24. In addition, see column 15, line 3 with respect to a single shared spanning tree. As such, the examiner maintains the rejection.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. **Claims 2, 21-27, 29, 31, 33-35, and 37** are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,353,596 B1 to *Grossglauser et al.* ("*Grossglauser I*") in view of "SEAM: Scalable and Efficient ATM Multicast" to *Grossglauser et al.* ("*Grossglauser II*").

As such to **claim 2**, *Grossglauser I* discloses a plurality of nodes as shown in figure 4 where the plurality of endpoints act as data senders or receivers, see e.g., column 11, lines 52-65. These nodes are linked by ATM, see e.g., column 6, lines 47-54. The network is further adapted to support multipoint-to-multipoint multicasting between a group of endpoints, see e.g., column 3, lines 16-23, where the network includes means for building a single spanning delivery tree between at least one sender and all receivers, see e.g., column 15, lines 1-15, belonging to a multi-casting group of endpoints, and in that

only one VC is employed to transmit data over said single spanning tree, see e.g., column 7, lines 15-25.

Grossglauser I may be silent or deficient to the further limitation of IP with respect to IP/ATM.

Grossglauser II teaches the further recited limitation above at e.g., right-hand column on page 868.

The proposed modification of the above-applied reference(s) necessary to arrive at the claimed subject matter would be to modify *Grossglauser I* by clarifying that the ATM traffic as taught by *Grossglauser II* contains IP at layer 3.

As such, examiner notes that it would have been obvious to one skilled in the art prior to applicant's invention to include the above limitation. In particular, the motivation for modifying the reference or to combine the reference teachings would be to interface with the Internet and e.g., using ATM LANE. In particular, *Grossglauser II* cures the above-cited deficiency by providing a motivation found at e.g., right-hand column on page 868. Second, there would be a reasonable expectation of success both references teach SEAM. Thus the references either in singular or in combination teach the above claim limitation(s).

As to **claim 21**, see similar rejection to claim 2.

As to **claim 22**, *Grossglauser I* teaches using a modified CBT tree that teaching a CBT rooted in a core node, see e.g., column 11, lines 15-40.

As to **claim 23**, with respect to selecting a core node, see e.g., column 11, lines 15-40 of *Grossglauser I*.

As to **claim 24**, *Grossglauser I* teaches forwarding traffic based on the defined routing protocol thus forwarding the traffic to only those branches in the tree where traffic is required, see e.g., column 11, lines 52-65.

As to **claim 25**, *Grossglauser I* teaches forwarding leaf initiated joins at e.g., column 15, lines 1-14.

As to **claim 26**, *Grossglauser II* teaches providing ATM addresses for the core for said MNS, when given an IP multicast address at e.g., right-hand column on page 868. Examiner notes the same motivation applies for the secondary reference.

As to **claim 27**, *Grossglauser I* teaches replicating packets only on branches of said spanning tree when needed based on the applied routing algorithm at e.g., column 11, lines 52-65. See also column 15, lines 60-67 with respect to copy of packets.

As to **claim 29**, *Grossglauser I* teaches dynamically selecting core nodes such that the tables are created at run time at e.g., column 11, lines 15-37.

As to **claim 31**, *Grossglauser I* teaches dynamically selecting core nodes such that the core is selected based on queries at e.g., column 11, lines 15-37.

As to **claim 33**, *Grossglauser I* teaches forwarding leaf initiated joins at e.g., column 15, lines 1-14.

As to **claim 34**, *Grossglauser I* teaches forwarding leaf initiated joins which are used to select the core node at e.g., column 15, lines 1-14.

As to **claim 35**, *Grossglauser I* teaches generating a dummy EOP cell after a time-out which is an “I am alive” message, see e.g., column 11, lines 1-15.

As to **claim 37**, see similar rejection to claim 2.

Allowable Subject Matter

7. **Claims 1, 3-20, and 36** are allowable.
8. **Claims 28, 30, and 32** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Derrick W. Ferris whose telephone number is (571) 272-3123. The examiner can normally be reached on M-F 9 A.M. - 4:30 P.M. E.S.T.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571)272-3139. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Derrick W. Ferris
Examiner
Art Unit 2663


DWF


RICKY NGO
PRIMARY EXAMINER

7/20/05